



FORM PTO - 1449				ATTORNEY DOCKET NO.: CHR-004					
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Wainwright <i>et al.</i>					
				SERIAL NO.: 10/803,177					
				FILING DATE: March 17, 2004 GROUP: 1651					
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
FOREIGN PATENT DOCUMENTS									
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OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
NAB	C72	Patent Cooperation Treaty (PCT) International Search Report; International Application No. PCT/US2004/008013, mailed on April 8, 2005 (9 pages including Notification of Transmittal of International Search Report).							
NAB	C73	Patent Cooperation Treaty (PCT) Written Opinion of the International Searching Authority for PCT Application No. PCT/US2004/008013, mailed on April 8, 2005 (8 pages).							
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NAB	A1	3,915,805	10/28/75	Levin			
	A2	3,944,391	3/16/76	Harris <i>et al.</i>			
	A3	3,954,663	05/04/76	Yamamoto <i>et al.</i>			
	A4	4,038,029	7/26/77	Teller <i>et al.</i>			
	A5	4,038,147	7/26/77	Reno			
	A6	4,221,865	9/9/80	Dubczak <i>et al.</i>			
	A7	4,221,866	9/9/80	Cotter			
	A8	4,245,044	1/13/81	Kuo <i>et al.</i>			
	A9	4,273,557	6/16/81	Juranas			
	A10	4,279,774	7/21/81	Lindsay <i>et al.</i>			
	A11	4,301,245	11/17/81	Lindsay <i>et al.</i>			
	A12	4,322,217	3/30/82	Dikeman			
	A13	4,370,413	1/25/83	Neeman <i>et al.</i>			
	A14	4,376,819	3/15/83	Brown <i>et al.</i>			
	A15	4,606,824	8/19/86	Chu <i>et al.</i>			
	A16	4,717,658	1/5/88	Michaels			
	A17	4,806,316	2/21/89	Johnson <i>et al.</i>			
	A18	5,155,032	10/13/92	Tanaka <i>et al.</i>			
	A19	5,179,006	1/12/93	Matuura <i>et al.</i>			
	A20	5,266,461	11/30/93	Tanaka			
	A21	5,286,625	2/15/94	Tanaka <i>et al.</i>			
	A22	5,310,657	5/10/94	Berzofsky			
	A23	5,316,911	5/31/94	Baek <i>et al.</i>			
	A24	5,318,893	7/7/94	Matuura <i>et al.</i>			
NAB	A25	5,389,547	2/14/95	Tanaka <i>et al.</i>			
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NAB	A26	5,372,946	12/13/94	Cusak <i>et al.</i>			
	A27	5,401,647	3/28/95	Tanaka <i>et al.</i>			
	A28	5,474,984	12/12/95	Tanaka <i>et al.</i>			
	A29	5,504,011	4/2/96	Gavin <i>et al.</i>			
	A30	5,518,006	5/21/96	Mawhirt <i>et al.</i>			
	A31	5,534,226	7/9/96	Gavin <i>et al.</i>			
	A32	5,550,030	8/27/96	Tanaka <i>et al.</i>			
	A33	5,574,023	11/12/96	Shibata <i>et al.</i>			
	A34	5,591,403	1/7/97	Gavin <i>et al.</i>			
	A35	5,591,628	1/7/97	Back <i>et al.</i>			
	A36	5,605,806	2/25/97	Tanaka <i>et al.</i>			
	A37	5,637,474	6/10/97	Tanaka <i>et al.</i>			
	A38	5,681,710	10/28/97	Tanaka <i>et al.</i>			
	A39	5,695,948	12/9/97	Tanaka <i>et al.</i>			
	A40	5,731,212	3/24/98	Gavin <i>et al.</i>			
	A41	5,702,882	12/30/97	Tamura <i>et al.</i>			
	A42	5,795,962	8/18/98	Iwanaga <i>et al.</i>			
	A43	5,800,781	9/1/98	Gavin <i>et al.</i>			
	A44	5,836,360	11/17/98	Gavin <i>et al.</i>			
	A45	6,046,021	4/4/00	Bochner			
	A46	6,270,982	8/7/01	Jordan <i>et al.</i>			
	A47	6,303,389	10/16/01	Levin <i>et al.</i>			
	A48	6,391,570	5/21/02	Jordan <i>et al.</i>			
	A49	6,428,971	8/6/02	Shinabarger <i>et al.</i>			
NAB	A50	6,440,722	8/27/02	Knapp <i>et al.</i>			
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NAB	A51	6,451,610	9/17/02	Gorman <i>et al.</i>					
	A52	6,696,261	2/24/04	Patel <i>et al.</i>					
	A53	Des. 258,144	2/3/81	Kallet <i>et al.</i>					
	A54	Des. 278,182	3/26/85	Aihara <i>et al.</i>					
	A55	Des. 325,090	3/21/92	Karp <i>et al.</i>					
	A56	Des. 330,428	10/20/92	Lewis <i>et al.</i>					
	A57	Des. 342,793	12/28/93	Balmer					
	A58	Des. 343,905	2/1/94	Nagata <i>et al.</i>					
	A59	Des. 353,676	12/20/94	Kelln <i>et al.</i>					
	A60	Des. 380,555	7/1/97	Kurosaki <i>et al.</i>					
	A61	Des. 390,661	2/10/98	Foggia					
	A62	Des. 391,373	2/24/98	Shartle					
	A63	Des. 437,419 S	2/6/01	Kraack <i>et al.</i>					
	A64	Des. 445,909 S	7/31/01	Pogorzelski					
	A65	Des. 463,570	9/24/02	Bedingham <i>et al.</i>					
NAB	A66	Des. 472,324	3/25/03	Rumore <i>et al.</i>					
FOREIGN PATENT DOCUMENTS									
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NAB	B1	99/53322	10/21/99	WO				N	Y
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
NAB	C1	Aono <i>et al.</i> , "Interaction Between Hemocytes and Plasma Is Necessary for Hemolymph Coagulation in the Spiny Lobster, <i>Panulirus japonicus</i> ," <i>Comp. Biochem. Physiol.</i> Vol. 113A, No.3, pp. 301-305 (1996).							
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NAB	C2	Asokan <i>et al.</i> , "Activation of Prophenoloxidase in the Plasma and Haemocytes of the Marine Mussel <i>Perna viridis</i> Linnaeus," <i>Developmental and Comparative Immunology</i> , Vol. 21, No. 1, pp. 1-12 (1997).	
	C3	Aspan <i>et al.</i> , "cDNA cloning of prophenoloxidase from the freshwater crayfish <i>Pacifastacus leniusculus</i> and its activation," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 92, pp. 939-943 (February 1995).	
	C4	Aspan <i>et al.</i> , "The Effect of Endogeneous Proteinase Inhibitors on the Prophenoloxidase Activating Enzyme, A Serine Proteinase from Crayfish Haemocytes," <i>Insect Biochem</i> , Vol. 20, No. 5, pp. 485-492 (1990).	
	C5	Bettencourt <i>et al.</i> , "Hemolymph-Dependent and -Independent Responses in <i>Drosophila</i> Immune Tissue," <i>Journal of Cellular Biochemistry</i> , 92:849-863 (2004).	
	C6	Bullis, "Invertebrate Pathology: Responses to Injury and Disease," Aquavet II, Comparative Pathology of Aquatic Animals, Laboratory for Marine Animal Health, School of Veterinary Medicine, University of Pennsylvania, undated.	
	C7	Burmester <i>et al.</i> , "Origin and evolution of arthropod hemocyanins and related proteins," <i>J Comp Physiol B</i> 172: 95-107 (2002).	
	C8	Charles River Laboratories, "In Vitro Pyrogen Test (IPT)," (2002).	
	C9	Charles River Laboratories, "IPT Assay Steps," (2002).	
	C10	"Comparative Immunology," <i>Department of Comparative Physiology - Uppsala University</i> , http://www.jamfys.cbc.uu.se/propo.html , printed May 22, 2002.	
	C11	Cooper <i>et al.</i> , "The Impact of Non-endotoxin LAL-Reactive Materials on <i>Limulus</i> Amebocyte Lysate Analyses," <i>PDA Journal of Pharmaceutical Science & Technology</i> , Vol. 51, No. 1:2-6 (January - February 1997).	
	C12	Datta <i>et al.</i> , "Purification of a unique glycoprotein that enhances phenol oxidase activity in scorpion (<i>Heterometrus bengalensis</i>) haemolymph," <i>Biochem. J.</i> Vol. 260, 525-529 (1989).	
	C13	Decker <i>et al.</i> , "SDS-induced Phenoloxidase Activity of Hemocyanins from <i>Limulus polyphemus</i> , <i>Eurypelma californicum</i> , and <i>Cancer magister</i> ," <i>The Journal of Biological Chemistry</i> , Vol. 276, No. 21, pp. 17796-17799 (May 2001).	
	C14	Decker <i>et al.</i> , "Tarantula Hemocyanin Shows Phenoloxidase Activity," <i>The Journal of Biological Chemistry</i> , Vol. 279, No. 40, pp. 25889-25892 (October 1998).	
NAB	C15	De Kimpe <i>et al.</i> , "The cell wall components peptidoglycan and lipoteichoic acid from <i>Staphylococcus aureus</i> act in synergy to cause shock and multiple organ failure," <i>Medical Sciences</i> , pp. 10359-10363 (October 1995).	
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NAB	C16	Duner, Kristina I., "A new kinetic single-stage Limulus amoebocyte lysate method for the detection of endotoxin in water and plasma," <i>Journal of Biochemical and Biophysical Methods</i> , Vol. 26, pp. 131-142 (1993).	
	C17	Gollas-Galvan <i>et al.</i> , "Prophenoloxidase from brown shrimp (<i>Penaeus californiensis</i>) hemocytes," <i>Comparative Biochemistry and Physiology Part B</i> , 122: 77-82 (1999).	
	C18	Ganguly <i>et al.</i> , "Tyrosine Phosphorylation of a 94-kDa Protein of Human Fibroblasts Stimulated by Streptococcal Lipoteichoic Acid," <i>The Journal of Biological Chemistry</i> , Vol. 260, No. 24, pp. 13342-13346 (October 1985).	
	C19	Geng <i>et al.</i> , "Hemostasis in Larvae of <i>Manduca Sexta</i> : Formation of A Fibrous Coagulum by Hemolymph Proteins," <i>Biochemical and Biophysical Research Communications</i> , Vol. 155, No. 2, pp. 1060-1065 (September 15, 1998).	
	C20	Ginsburg, "Role of lipoteichoic acid in infection and inflammation", <i>The Lancet Infectious Diseases</i> , Vol. 2, pp. 171-179 (March 2002).	
	C21	Goldsworthy <i>et al.</i> , "Adipokinetic hormone enhances laminarin and bacterial lipopolysaccharide-induced activation of the prophenoloxidase cascade in the African migratory locust," <i>Locusta migratoria, Journal of Insect Physiology</i> , 48: 601-608 (2002).	
	C22	Halwani <i>et al.</i> , "Apolipoprotein-III and the Interactions of Lipoteichoic Acids with the Immediate Immune Responses of <i>Galleria mellonella</i> ," <i>Journal of Invertebrate Pathology</i> , 76, 233-241 (2000).	
	C23	Hamada <i>et al.</i> , "Chemical Properties and Immunobiological Activities of Streptococcal Lipoteichoic Acids," <i>Abl. Bakt. Hyg. A</i> 259, 228-243 (1985).	
	C24	Harrington <i>et al.</i> , "Synthesis of Peptidoglycan and Teichoic Acid in <i>Bacillus subtilis</i> : Role of the Electrochemical Proton Gradient," <i>Journal of Bacteriology</i> , Vol. 159, No. 3, pp 925-933 (September 1984).	
	C25	Hauton <i>et al.</i> , "Circatidal rhythmicity in the activity of the phenoloxidase enzyme in the common shore crab," <i>Carcinus maenas, Comp. Biochem. Physiol.</i> Vol. 111B, No.3, pp. 347-352 (1995).	
	C26	Hauton <i>et al.</i> , "In Situ Variability in Phenoloxidase Activity in the Shore Crab, <i>Carcinus maenas</i> (L.)," <i>Comp. Biochem. Physiol.</i> Vol. 117B, No.2, pp. 267-271 (1997).	
	C27	Hernandez-Lopez <i>et al.</i> , "In the spiny lobster (<i>Panulirus interruptus</i>) the prophenoloxidase is located in plasma not in haemocytes," <i>Fish & Shellfish Immunology</i> , 14, 105-114 (2003).	
NAB	C28	Hurley, James C., "Endotoxemia: Methods of Detection and Clinical Correlates," <i>Clinical Microbiology Reviews</i> , Vol. 8, No. 2, pp. 261-292 (April 1995).	
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NAB	C29	Iwanaga <i>et al.</i> , "Chromogenic Substrates for Horseshoe Crab Clotting Enzyme: Its Application for the Assay of Bacterial Endotoxins," <i>Hemostasis, Chapter 7</i> , pp. 183-188 (1978).	
	C30	Iwanaga, Sadaaki, "The limulus clotting reaction," <i>Current Opinion in Immunology, Current Biology Ltd.</i> , Vol. 5, No. 5, pp. 74-82 (1993).	
	C31	Iwanaga, "The molecular basis of innate immunity in the horseshoe crab," <i>Curr Opin Immunol</i> , Vol. 14, pp. 87-95 (2002).	
	C32	Jiang <i>et al.</i> , "Characterization and Functional Analysis of 12 Naturally Occurring Reactive Site Variants of Serpin-1 from <i>Manduca sexta</i> -," <i>The American Society for Biochemistry and Molecular Biology, Inc.</i> , Volume 272, No. 2, pp. 1082-1087 (January 1997).	
	C33	Jiang <i>et al.</i> , "Pro-phenol oxidase activating proteinase from an insect, <i>Manduca sexta</i> : A bacteria-inducible protein similar to <i>Drosophila</i> easter," <i>Biochemistry</i> , Vol. 95, Issue 21, 12220-12225 (August 1998).	
	C34	Jiang <i>et al.</i> , "β-1, 3-Glucan recognition protein-2 (βGRP-2) from <i>Manduca sexta</i> : an acute-phase protein that binds β-1, 3-Glucan and lipoteichoic acid to aggregate fungi and bacteria and stimulate prophenoloxidase activation," <i>Insect Biochemistry and Molecular Biology</i> , Vol. 34, Issue 1, pp. 89-100 (2004).	
	C35	Johansson <i>et al.</i> , "Cellular Immunity in Crustaceans and the proPO System," <i>Parasitology Today</i> , Vol. 5, No. 6 (1989).	
	C36	Jolliffe <i>et al.</i> , "The Energized Membrane and Cellular Autolysis in <i>Bacillus subtilis</i> ," <i>Cell</i> , Vol. 25, pp. 753-763 (September 1981).	
	C37	Kawabata <i>et al.</i> , "The Clotting Cascade and Defense Molecules Found in the Hemolymph of the Horseshoe Crab," <i>New Directions in Invertebrate Immunology</i> , 255-283 (1996).	
	C38	Kobayashi <i>et al.</i> , "Detection of peptidoglycan in human plasma using the silkworm larvae plasma test," <i>FEMS Immunology and Medical Microbiology</i> , 28: 49-53 (2000).	
	C39	Lackie <i>et al.</i> , "Invertebrate immunity," <i>Parasitology</i> , 80: 393-412 (1980).	
	C40	Loker <i>et al.</i> , "On Being A Parasite in an Invertebrate Host: A Short Survival Course," <i>J. Parasitol.</i> , 80(5), p. 728-747 (1994).	
	C41	Mattsson <i>et al.</i> , "Highly Purified Lipoteichoic Acid from <i>Staphylococcus aureus</i> Induces Procoagulant Activity and Tissue Factor Expression in Human Monocytes but Is a Weak Inducer in Whole Blood: Comparison with Peptidoglycan," <i>Infection and Immunity</i> , pp.4322-4326 (July 2004).	
NAB	C42	Morath <i>et al.</i> , "Structural Decomposition and Heterogeneity of Commercial Lipoteichoic Acid Preparations," <i>Infection and Immunity</i> , pp. 938-944 (February 2002).	
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NAB	C43	Muta <i>et al.</i> , "Limulus Factor C," <i>Journal of Biological Chemistry, American Society of Biological Chemists - Baltimore, MD</i> , Vol. 266, No. 10 pp. 6554-6561 (1991).	
	C44	Nagai <i>et al.</i> , "A Link between Blood Coagulation and Prophenol Oxidase Activation in Arthropod Host Defense," <i>The Journal of Biological Chemistry</i> , Vol. 275, No. 38, pp. 29264-29267 (September 2000).	
	C45	Nagai <i>et al.</i> , "Functional Conversion of Hemocyanin to Phenoloxidase by Horseshoe Crab Antimicrobial Peptides," <i>The Journal of Biological Chemistry</i> , Vol. 26, No. 29, pp. 27166-27170 (July 2001).	
	C46	Nellaiappan <i>et al.</i> , "On the Presence of Prophenoloxidase in the Hemolymph of the Horseshoe Crab," <i>Limulus, Comp. Biochem. Physiol.</i> , Vol. 113B, No. 1, pp. 163-168 (1996).	
	C47	Obayashi <i>et al.</i> , "A new chromogenic endotoxin-specific assay using recombined limulus coagulation enzymes and its clinical applications," <i>Clin. Chin. Acta</i> 149:55-65 (1985).	
	C48	Parrinello <i>et al.</i> , "Phenoloxidases in ascidian hemocytes: characterization of the pro-phenoloxidase activating system," <i>Comparative Biochemistry and Physiology Part B: Biochemistry and Molecular Biology</i> , Volume 135, Issue 4, pp. 583-591 (2003).	
	C49	Pearson <i>et al.</i> , "Comparison of Chemical Analyses of Hollow-Fiber Dialyzer Extracts," <i>Artificial Organs</i> , Vol. 8, No. 3:291-298 (1984).	
	C50	Ratcliffe <i>et al.</i> , "Activation of the Prophenoloxidase Cascade and Initiation of Nodule Formation in Locusts by Bacterial Lipopolysaccharides," <i>Developmental and Comparative Immunology</i> , Vol. 15, pp. 33-39 (1991).	
	C51	Roslansky <i>et al.</i> , "Sensitivity of <i>Limulus</i> Amebocyte Lysate (LAL) to LAL-Reactive Glucans," <i>Journal of Clinical Microbiology</i> , Vol. 29, No. 11:2477-2483 (November 1991).	
	C52	Saul <i>et al.</i> , "The Majority of Prophenoloxidase in the Hemolymph of <i>Manduca Sexta</i> is Present in the Plasma and Not in the Hemocytes," <i>Developmental and Comparative Immunology</i> , Vol. 11, pp. 479-485 (1987).	
	C53	Seki <i>et al.</i> , "Horseshoe Crab (1,3)- β -D-Glucan-sensitive Coagulation Factor G," <i>The Journal of Biological Chemistry</i> , Vol. 269, No. 2:1370-1374 (January 1994).	
	C54	Shah <i>et al.</i> , "A novel glucan-binding protein with lipase activity from the oral pathogen <i>Streptococcus mutans</i> ," <i>Microbiology</i> , 150: 1947-1956 (2004).	
	C55	Söderhäll, "Prophenoloxidase Activating System and Melanization – A Recognition Mechanism of Arthropods? A Review.," <i>Developmental and Comparative Immunology</i> , Vol. 6, pp. 601-611 (1982).	
NAB	C56	Söderhäll <i>et al.</i> , "The Prophenoloxidase Activating System and its Role in Invertebrate Defence," <i>Annals of the New York Academy of Sciences</i> , Vol. 712, pp. 155-161 (April 15, 1994).	
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NAB	C57	Söderhäll <i>et al.</i> , "Chapter 15 The Prophenoloxidase Activating System: The Biochemistry of Its Activation and Role in Arthropod Cellular Immunity, with Special Reference to Crustaceans," <i>Immunity in Invertebrates</i> , pp. 208-223 (1986).	
	C58	Sritunyalucksana <i>et al.</i> , "Peroxinectin, a cell adhesive protein associated with the proPO system from the black tiger shrimp," <i>Penaeus monodon</i> , <i>Developmental and Comparative Immunology</i> , 25: 353-363 (2001).	
	C59	Sugumaran <i>et al.</i> , "Lysolecithin – A Potent Activator of Prophenoloxidase from the Hemolymph of the Lobster," <i>Homarus Americanus</i> , <i>Biochemical and Biophysical Research Communications</i> , Vol. 176, No. 3, pp. 1371-1376 (1991).	
	C60	Tarsi-Tsuk <i>et al.</i> , Stimulation of the Respiratory Burst in Peripheral Blood Monocytes by Lipoteichoic Acid," <i>The Journal of Immunology</i> , Vol. 144, No. 7, pp. 2665-2670 (April 1990).	
	C61	"The Horseshoe Crab", http://www.horseshoecrab.org/anat/anat.html , printed 8/6/02.	
	C62	"The prophenoloxidase (proPO) activation system", http://sbs.umkc.edu/yux/PPO%20activation.html , printed 4/16/03.	
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EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
NAB	C71	Decker <i>et al.</i> , "Recent findings on phenoloxidase activity and antimicrobial activity of hemocyanins," <i>Developmental & Comparative Immunology</i> , Volume 28, Pages 673-687 (2004).	
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